GVRP Configuration Commands

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Chapter 1 GVRP Configuration Commands

1.1 GVRP Configuration Commands

1.1.1 gvrp

Syntax

To enable or disable GVRP, run gvrp. To resume the default value, run no gvrp.

gvrp

no gvrp

Parameters

None

Default Value

The global GVRP is shut down, while GVRP on ports is enabled.

Command Mode

Global configuration mode, Interface configuration mode

Usage Guidelines

GVRP can be enabled globally or on a port. Hence, GVRP can be really enabled only after GVRP is enabled both globally and on ports.

Example

The following example shows how to enable GVRP globally.

Switch_config#gvrp
Switch_config#

The following example shows how to enable GVRP on port 1.

Switch_config_g0/1#gvrp
Switch_config_g0/1#

1.1.2   gvrp dynamic-vlan-pruning

Syntax

To set the dynamic vlan to be effective on a registered port, run gvrp dynamic-vlan-pruning; to return to the default setting, use the "no" form of this command.

gvrp dynamic-vlan-pruning

no gvrp dynamic-vlan-pruning

Parameters

None

Default Value

dynamic-vlan-pruning is disabled by default, that is, dynamic VLAN can take effect on all ports.

Command Mode

Global configuration mode

Usage Guidelines

After this command is enabled and if a port has not registered a dynamic VLAN, this port will not belong to the dynamic VLAN even though this port is a trunk port and it allows the dynamic VLAN to pass through.

Example

The following example shows how to make dynamic VLAN validate on its registered port.

Switch_config#gvrp dynamic-vlan-pruning

Switch_config#

1.1.3   show gvrp statistics

Syntax

To display the GVRP statistics information, run the following command.

show gvrp statistics [interface *intf-id*]

Parameters

Parameters	Description
Intf-id	Stands for a specific physical interface.

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

This command is used to display the GVRP statistics information.

Example

The following example shows how to display the GVRP statistics information about interface g0/1.

Switch_config#show gvrp statistics interface g0/1

GVRP statistics on port g0/1

     GVRP Status   : Enabled

     GVRP Frames Received   : 0

     GVRP Frames Transmitted : 20

     GVRP Frames Discarded   : 0

     GVRP Last Pdu Origin   : 0000.0000.0000

1.1.4   show gvrp status

Syntax

To display the GVRP state information, run the following command.

show gvrp status

Parameters

None

Default Value

None

Command Mode

Other modes except the user mode

Usage Guidelines

This command is used to display theGVRP state information.

Example

The following example shows how to display the GVRP state information about an OLT.

Switch_config#show gvrp status
        GVRP is enabled

1.1.5   debug gvrp event

Syntax

To enable the information output of GVRP debugging, run debug gvrp event. To shut down the information output of GVRP debugging, run no debug GVRP event.

debug gvrp event

no debug gvrp event

Parameters

None

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

To enable the information output of GVRP debugging, run debug gvrp event. To shut down the information output of GVRP debugging, run no debug GVRP event.

Example

Switch# debug gvrp event
Switch#

1.1.6   debug gvrp packet

Syntax

To enable or disable GVRP displaying, run the following command.

debug gvrp packet

no debug gvrp packet

Parameters

None

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

This command is used to enable or disable GVRP displaying.

Example

switch# debug gvrp packet
switch#

1.2   GARP Configuration Commands

GARP is the basic module of GVRP/CMRP. It scheldules GVRP/GMRP running and provides services to GVRP/GMRP.

1.2.1   garp timer leaveall

Syntax

To configure the garp leaveall timer, run garp timer leaveall time_value. To resume the corresponding default value, run no garp timer leaveall.

garp timer leaveall *time_value*

no garp timer leaveall

Parameters

Parameters	Description
timer_value	Stands for the global leaveall timer value. Value range: 10~ 32765 centiseconds.

Default Value

1000 centiseconds

Command Mode

Global configuration mode

Usage Guidelines

After the leaveall timer times out, the bridge cancels all registered VLAN information and transmits LeaveAll Message to the outside.

Example

The following example configures leaveall timer on the OLT to 1200 centiseconds.

Switch_config# garp timer leaveall 1200
Switch_config#

1.2.2   garp timer hold

Syntax

To configure the garp hold timer, run garp timer hold time_value. To return to the default setting, run no garp timer hold.

garp timer hold *time_value*

no garp timer hold

Parameters

Parameters	Description
timer_value	hold timer value of the port Value range: 10~ 32765 centiseconds.

Default Value

10 centiseconds

Command Mode

Port configuration mode

Usage Guidelines

The command is not be supported on the PON port.

Example

The following example shows how to configure garp hold timer on the G0/1 to 15 centiseconds.

Switch_config# interface G0/1

Switch_config_g0/1# garp timer hold 15

1.2.3   garp timer join

Syntax

To configure the garp join timer, run garp timer join time_value. To return to the default setting, run no garp timer join.

garp timer join *time_value*

no garp timer join

Parameters

Parameters	Description
timer_value	join timer value of the port Value range: 10~ 32765 centiseconds.

Default Value

20 centiseconds

Command Mode

Port configuration mode

Usage Guidelines

The command is not supported on the PON port.

Example

The following example shows how to configure garp join timer of the port g0/1 on the switch to 25 centiseconds.

Switch_config# interface G0/1

Switch_config_g0/1#garp timer join 25

1.2.4   garp timer leave

Syntax

To configure the garp leave timer, run garp timer leave time_value. To return to the default setting, run no garp timer leave.

garp timer leave *time_value*

no garp timer leave

Parameters

Parameters	Description
timer_value	leave timer value of the port Value range: 10~ 32765 centiseconds.

Default Value

60 centiseconds

Command Mode

Port configuration mode

Usage Guidelines

The command is not supported on the PON port.

Example

The following example shows how to configure garp leave timer of the port g0/1 on the switch to 80 centiseconds.

Switch_config# interface G0/1
Switch_config_g0/1#garp timer leave 80

1.2.5   show garp timers

Syntax

To display the GARP-configured clock information, run the following command.

show garp timers [interface *intf_id*]

Parameters

Parameters	Description
Intf-id	Stands for a specific physical interface.

Default Value

None

Command Mode

Any mode

Usage Guidelines

This command is used to display theGARP-configured clock information, including the global leaveall timer value, the hold/join/leave timer value on the port.

Example

The following example shows how to display the timer information on interface G0/1.

Switch# show garp timers interface g0/1
GARP timers on port 1(G0/1)
       Garp Join Time   : 20 centiseconds
       Garp Leave Time   : 60 centiseconds
       Garp LeaveAll Time   : 1000 centiseconds
       Garp Hold Time   : 10 centiseconds

1.2.6   show garp status

Syntax

To display the current GARP application instance by default, run the following
command.

show garp status

Parameters

None

Default Value

None

Command Mode

Any mode

Usage Guidelines

The current GARP application instance is displayed by default.

Example

The following example shows the running GARP application instances.

Switch_config#show garp status
    Current running GARP application(s):
            gvrp

1.2.7   debug garp

Syntax

To enable the debug information about the GARP event or timer, run the following
command. To return to the default setting, use the no form of this command.

debug garp { event | timer }

no debug garp { event | timer }

Parameters

Parameters	Description
event	event debug
timer	timer debug

Default Value

None

Command Mode

Privileged mode

Usage Guidelines

This command is used to enable or disable the debug information about the GARP event or timer.

Example

The following example shows how to enable GARP event debug information.
Switch# debug garp event
Switch#